Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	4	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS	5	FEB 05	German (DE) application and patent publication number format changes
NEWS	6	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 03	FRANCEPAT now available on STN
NEWS	9	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS	10	MAR 29	WPIFV now available on STN
NEWS	11	MAR 29	No connect hour charges in WPIFV until May 1, 2004
NEWS	12	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS	13	APR 26	PROMT: New display field available
NEWS	14	APR 26	FIPAT/IFIUDB/IFICDB: New super search and display field available
NEWS	15	APR 26	LITALERT now available on STN
NEWS	16	APR 27	NLDB: New search and display fields available

NEWS EXPRESS	MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 APRIL 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 06:06:40 ON 28 APR 2004

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

```
FILE 'STNGUIDE' ENTERED AT 06:06:48 ON 28 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 23, 2004 (20040423/UP).

=> FIL HOME
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.06       0.27

FILE 'HOME' ENTERED AT 06:06:51 ON 28 APR 2004

=> FIL STNGUIDE
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.48

FILE 'STNGUIDE' ENTERED AT 06:06:59 ON 28 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 23, 2004 (20040423/UP).

=> DIS SAVED
NAME             CREATED      NOTES/TITLE
---------------  -----------  ------------------------------------
ALKYLATIN/L      13 DEC 2001  9 L-NUMBERS
DIABETCMPDS/A    TEMP         31 ANSWERS IN FILE CAPLUS
ESTERODOR/L      05 SEP 2002  42 L-NUMBERS
HBAPP/L          TEMP         18 L-NUMBERS
HBCORECMPDS/A    TEMP         1162 ANSWERS IN FILE CAPLUS
INDIUMCL3/A      30 MAY 2001  1 ANSWER IN FILE REGISTRY
LINKERS/A        TEMP         11229 ANSWERS IN FILE CAPLUS
LIWENTAUGFOR/A   04 AUG 2001  72 ANSWERS IN FILE CAPLUS
NEOTAMECRYST/A   24 APR 2001  59 ANSWERS IN FILE CAPLUS
NVLARMFULGEN/A   19 APR 2001  196 ANSWERS IN FILE REGISTRY
POHBENZALDEH/A   10 JUL 2001  5519 ANSWERS IN FILE CAPLUS
PROSTACMPD15/A   01 AUG 2001  34 ANSWERS IN FILE CAPLUS
STILLEAPP/L      07 JAN 2002  17 L-NUMBERS
TWOAMINOPOLY/Q   16 APR 2001  UPLOADED STRUCTURE


=> DIS SAVED/S
NO SAVED SDI REQUESTS


=> ACT HBAPP/L
L1              STR
L2   (        33)SEA FILE=REGISTRY SSS SAM L1
L3              STR
L4   (        22)SEA FILE=REGISTRY SSS SAM L3
L5   (      7236)SEA FILE=REGISTRY SSS FUL L3
L6   (      1162)SEA FILE=CAPLUS ABB=ON  PLU=ON  L5
L7   (    291914)SEA FILE=CAPLUS ABB=ON  PLU=ON  POLYESTER
L8   (        14)SEA FILE=CAPLUS ABB=ON  PLU=ON  L6 AND L7
L9   (         1)SEA FILE=REGISTRY ABB=ON  PLU=ON  "3,5-DIACETOXYBENZOIC ACID"/CN
L10  (        34)SEA FILE=CAPLUS ABB=ON  PLU=ON  L9
L11  (         8)SEA FILE=CAPLUS ABB=ON  PLU=ON  L7 AND L10
L12  (      4016)SEA FILE=CAPLUS ABB=ON  PLU=ON  DIHYDROXYBENZOIC
```

```
L13             STR
L14 (        50)SEA FILE=REGISTRY SSS SAM L13
L15 (     22581)SEA FILE=REGISTRY SSS FUL L13
L16 (     11229)SEA FILE=CAPLUS ABB=ON  PLU=ON  L15
L17 (         9)SEA FILE=CAPLUS ABB=ON  PLU=ON  L12 AND L16
L18 (         4)SEA FILE=CAPLUS ABB=ON  PLU=ON  L5 AND L16

=> FIL CAPLUS
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.06       0.54

FILE 'CAPLUS' ENTERED AT 06:07:25 ON 28 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
```



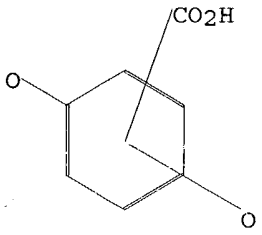
```
FILE COVERS 1907 - 28 Apr 2004  VOL 140 ISS 18
FILE LAST UPDATED: 27 Apr 2004  (20040427/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> ACT HBCORECMPDS/A
L19             STR
L20 (      7236)SEA FILE=REGISTRY SSS FUL L19
L21        1162 SEA FILE=CAPLUS ABB=ON  PLU=ON  L20

=> ACT LINKERS/A
L22             STR
L23 (     22581)SEA FILE=REGISTRY SSS FUL L22
L24       11229 SEA FILE=CAPLUS ABB=ON  PLU=ON  L23

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       3.94       4.48

FILE 'REGISTRY' ENTERED AT 06:12:41 ON 28 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   26 APR 2004  HIGHEST RN 676992-14-6
DICTIONARY FILE UPDATES:  26 APR 2004  HIGHEST RN 676992-14-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

  Please note that search-term pricing does apply when
```

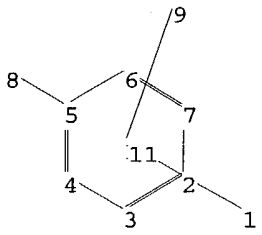
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Examination Auxillary files\10031950\10031950 generic core amdmt.str



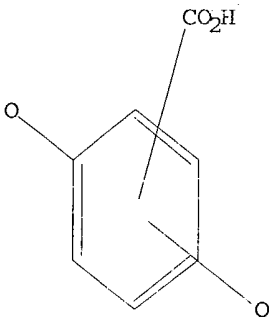


chain nodes :
1 8 9
ring nodes :
2 3 4 5 6 7
chain bonds :
5-8
ring bonds :
2-7 2-3 3-4 4-5 5-6 6-7
exact/norm bonds :
5-8
normalized bonds :
2-7 2-3 3-4 4-5 5-6 6-7

Match level :
1:CLASS 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS
11:CLASS

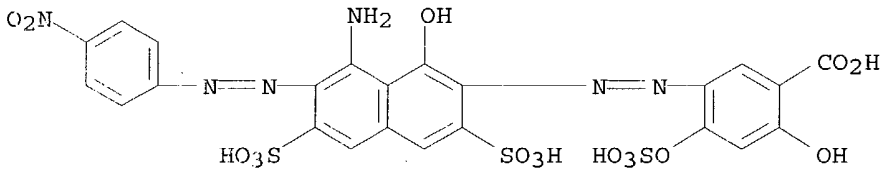
L25 STRUCTURE UPLOADED

=> d l25
L25 HAS NO ANSWERS
L25 STR

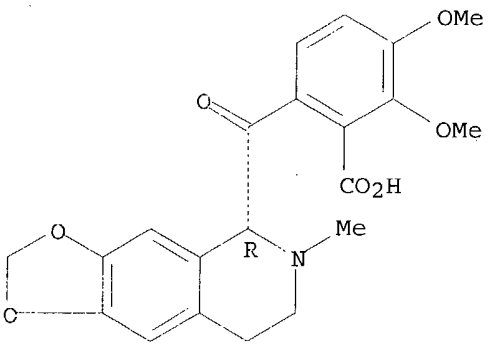


Structure attributes must be viewed using STN Express query preparation.

```
=> search l25 sss sam
SAMPLE SEARCH INITIATED 06:13:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -  34100 TO ITERATE

  2.9% PROCESSED    1000 ITERATIONS                                  6 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:       670979 TO   693021
PROJECTED ANSWERS:            3234 TO     4950

L26            6 SEA SSS SAM L25

=> d scan

L26  6 ANSWERS   REGISTRY  COPYRIGHT 2004 ACS on STN
IN   β-Resorcylic acid, 5-[[8-amino-1-hydroxy-7-[(p-nitrophenyl)azo]-3,6-
     disulfo-2-naphthyl]azo]-, 4-(hydrogen sulfate) (7CI)
MF   C23 H16 N6 O16 S3
```

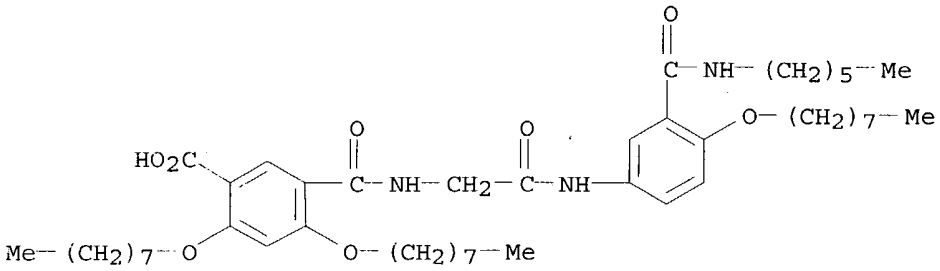


```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L26  6 ANSWERS   REGISTRY  COPYRIGHT 2004 ACS on STN
IN   Benzoic acid, 2,3-dimethoxy-6-[(5,6,7,8-tetrahydro-6-methyl-1,3-
     dioxolo[4,5-g]isoquinolin-5-yl)carbonyl]-, (R)- (9CI)
MF   C21 H21 N O7

Absolute stereochemistry.
```



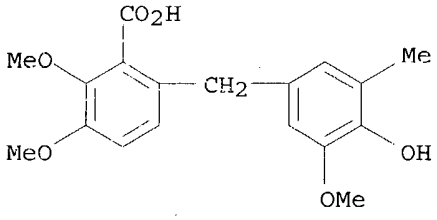
```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
```

L26 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Benzoic acid, 5-[[[2-[[3-[(hexylamino)carbonyl]-4-(octyloxy)phenyl]amino]-2-oxoethyl]amino]carbonyl]-2,4-bis(octyloxy)- (9CI)
MF C47 H75 N3 O8



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

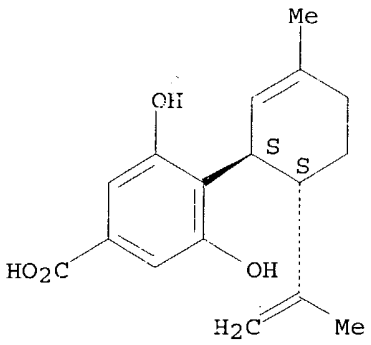
L26 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Benzoic acid, 6-[(4-hydroxy-3-methoxy-5-methylphenyl)methyl]-2,3-dimethoxy- (9CI)
MF C18 H20 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

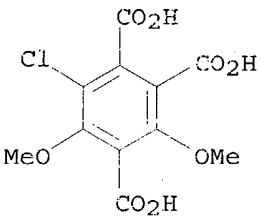
L26 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Benzoic acid, 3,5-dihydroxy-4-[3-methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]-, (1S-trans)- (9CI)
MF C17 H20 O4

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L26 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,2,4-Benzenetricarboxylic acid, 6-chloro-3,5-dimethoxy- (7CI)
MF C11 H9 Cl O8



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l25 sss full
FULL SEARCH INITIATED 06:13:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 679512 TO ITERATE

58.9% PROCESSED 400000 ITERATIONS 5119 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.05

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 679512 TO 679512
PROJECTED ANSWERS: 8417 TO 8975

L27 5119 SEA SSS FUL L25

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 155.84 160.32

FILE 'CAPLUS' ENTERED AT 06:13:59 ON 28 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 28 Apr 2004 VOL 140 ISS 18
FILE LAST UPDATED: 27 Apr 2004 (20040427/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l27
L28 2018 L27

=> l24 and l28
L29 15 L24 AND L28

=> d l29 1-15 ti

L29 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of pyridinoylpiperidines as 5-HT1F agonists

L29 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation and mass spectra of avermectin salts substituted in the 4"-position and having pesticidal properties

L29 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Alkali-developable light-sensitive resin for fabrication of black matrix for optical imaging devices

L29 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Host-guest interactions in humic materials

L29 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Redox-switched control of binding strength in hydrogen-bonded metallocene complexes

L29 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Distribution and sources of organic biomarkers in arctic sediments from the Mackenzie River and Beaufort Shelf

L29 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Supramolecular liquid crystals formed by hydrogen bonding between a benzocrown-bearing stilbazole and carboxylic acids

L29 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Supramolecular liquid-crystalline materials formed by hydrogen-bonded assembly processes

L29 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of new phasmidic liquid crystals induced by intermolecular hydrogen bonding between pyridine moieties and carboxylic acids

L29 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis and radioprotective effects of organic salts of 2,2-dimethylthiazolidine and cystamine

L29 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Skin-lightening cosmetics containing organic compounds and glycosides

L29 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Ion-conductive polymer electrolyte, its production, and capacitors using it

L29 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Supramolecular Chemistry. 49. Ligand-Porphyrin Complexes: Quantitative Evaluation of Stacking and Ionic Contributions

L29 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI The effect of metal ions on the structure of ion-cross-linked polyurethanes

L29 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Therapeutically active phenothiazines

=> d l29 3,4,5,7,8,9,11-15 ti fbib abs

L29 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Alkali-developable light-sensitive resin for fabrication of black matrix for optical imaging devices
AN 2001:919119 CAPLUS
DN 136:61587
TI Alkali-developable light-sensitive resin for fabrication of black matrix for optical imaging devices
IN Itoi, Takeshi; Demachi, Yasuyuki; Ito, Shinji; Tani, Masahito; Mori, Yoshihiro; Saruwatari, Yoshiyuki
PA Toppan Printing Co., Ltd., Japan; Osaka Yuki Kagaku Kogyo Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001350260	A2	20011221	JP 2000-167662	20000605
				JP 2000-167662	20000605

AB The title resin is made of the addition product of α,β-unsat. polyalc. CH2=C(R3)-COO-CH2-CH(OH)-CH2-R1-CH2-CH(OH)-CH2-R2-CH2-CH(OH)-CH2-R1-CH2-CH(OH)-CH2-OCO-C(R3)=CH2 (R1-2 = 2-valent orgs.; R3 = H, CH3) and a carboxylic anhydride compound and has 20-150 solid-based acid value. The composition provides the improved storageability.

L29 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Host-guest interactions in humic materials
AN 2001:808556 CAPLUS
DN 136:251939
TI Host-guest interactions in humic materials
AU Smeulders, Damian E.; Wilson, Michael A.; Kannangara, G. S. Kamali
CS Materials and Forensic Science, Department of Chemistry, University of Technology, Organic Geochemistry Group, Broadway, Sydney, 2007, Australia
SO Organic Geochemistry (2001), 32(11), 1357-1371
CODEN: ORGEDE; ISSN: 0146-6380
PB Elsevier Science Ltd.
DT Journal
LA English

AB Dialysis of humic organic matter separates the material into mol. weight fractions or, more correctly, fractions which can pass through specifically sized pores. In the course of investigating the structure of humic organic matter in different industrial processes, we found some unusual properties of humic fractions from the Bayer process for separating alumina from ferric oxide. The dialysis process appeared not to discriminate against certain small mols. of organic matter produced from a plant operating at 250-255°. We demonstrate that these small mols. appear to be bound to large mols. by phys. entrapment and/or noncovalent interactions. Evidence for this supposition is given by proton NMR and by derivatization of polar groups, which then releases the entrapped small mols. that can be detected and identified by gas chromatog./mass spectrometry. A host-guest theory is proposed that may have wide ramifications into the nature of the bonding of other low mol. weight substances to larger humic materials such as those in aqueous solns. in streams, rivers and seas.

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

TI Redox-switched control of binding strength in hydrogen-bonded metallocene complexes

AN 2000:733811 CAPLUS

DN 134:17587

TI Redox-switched control of binding strength in hydrogen-bonded metallocene complexes

AU Carr, Jonathan D.; Coles, Simon J.; Hursthouse, Michael B.; Light, Mark E.; Tucker, James H. R.; Westwood, Joanna

CS Sch. Chem., Univ. Exeter, Exeter, EX4 4QD, UK

SO Angewandte Chemie, International Edition (2000), 39(18), 3296-3299
CODEN: ACIEF5; ISSN: 1433-7851

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

AB Herein the authors compare the dicarboxylic acid (glutaric acid) binding properties of 1,1'-bis(N-(6-methyl-2-pyridyl)aminocarbonyl)ferrocene with those of its charged cobaltocenium analog and show that the strength of the H bonding interaction can be controlled by changing the oxidation state of the metal in each receptor.

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

TI Supramolecular liquid crystals formed by hydrogen bonding between a benzocrown-bearing stilbazole and carboxylic acids

AN 2000:391315 CAPLUS

DN 133:97123

TI Supramolecular liquid crystals formed by hydrogen bonding between a benzocrown-bearing stilbazole and carboxylic acids

AU Gundogan, Bilgi; Binnemans, Koen

CS Department of Chemistry, Coordination Chemistry Section, K.U.Leuven, Louvain, B-3001, Belg.

SO Liquid Crystals (2000), 27(6), 851-858
CODEN: LICRE6; ISSN: 0267-8292

PB Taylor & Francis Ltd.

DT Journal

LA English

AB The mesomorphism of H bonded complexes formed between 4'-carboxybenzo-15-crown-5 stilbazolyl ester (CBCSE) as proton acceptor and carboxylic acids as proton donors is discussed. CBCSE is a monotropic mesogen, forming a nematic phase upon quench cooling. A total of 32 H bonded complexes was studied. H bonding with carboxylic acids stabilizes the nematic phase, and/or induces a smectic A (SmA) phase. CBCSE forms 1:1 complexes (molar ratio) with alkanoic acids (fatty acids) and 2:1 complexes with alkanedioic acids. None of these proton donors is a mesogen itself, but

the H bonded complexes are. The influence of the chain or spacer length on the transition temps. is discussed. Besides the homologous series of the alkanoic and alkanedioic acids, the following carboxylic acids were used in this study: diglycolic acid, pyridine-2,6-dicarboxylic acid, 4-dodecyloxybenzoic acid, 3,4-bis(dodecyloxy)benzoic acid, 2,3,4-tris(dodecyloxy)benzoic acid and 3,4,5-tris(dodecyloxy)benzoic acid, phthalic acid, isophthalic acid and terephthalic acid.

RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Supramolecular liquid-crystalline materials formed by hydrogen-bonded assembly processes
AN 1999:559232 CAPLUS
DN 131:316063
TI Supramolecular liquid-crystalline materials formed by hydrogen-bonded assembly processes
AU Kato, Takashi; Yasuda, Takayasu; Kanie, Kiyoshi; Ihata, Osamu; Mizoshita, Norihiro; Hanabusa, Kenji; Ukon, Masakatsu; Shimizu, Yo
CS Department of Chemistry and Biotechnology, School of Engineering, The University of Tokyo, Tokyo, 113-8656, Japan
SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1999), 40(2), 1104-1105
CODEN: ACPPAY; ISSN: 0032-3934
PB American Chemical Society, Division of Polymer Chemistry
DT Journal
LA English
AB Hydrogen-bonded mesogenic complexes are of 2 types: identical mols. and different mols. Dialkoxyphenyl moieties were incorporated into the glutamic acid unit of folic acid. These derivs. exhibit thermotropic mesomorphic properties due to the hydrogen-bonded tetramer formation. Hydrogen-bonded complexes of 2,6-bis(acylamino)pyridine and 4-alkoxybenzoic acid exhibit various liquid crystal phases. The formation of anisotropic composites of gelling agents and nematic, smectic and discotic liquid crystals with well-organized structures is described.

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of new phasmidic liquid crystals induced by intermolecular hydrogen bonding between pyridine moieties and carboxylic acids
AN 1999:54781 CAPLUS
DN 130:175597
TI Synthesis of new phasmidic liquid crystals induced by intermolecular hydrogen bonding between pyridine moieties and carboxylic acids
AU Tian, Yan Qing; Xu, Xiao He; Zhao, Ying Ying; Tang, Xin Yi; Li, Tie Jin; Huang, Xi Min
CS Department Chemistry, Jilin University, Changchun, 130023, Peop. Rep. China
SO Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals (1998), 309, 19-27
CODEN: MCLCE9; ISSN: 1058-725X
PB Gordon & Breach Science Publishers
DT Journal
LA English
AB New liquid crystals induced by intermol. H bonding between 4-(3,4,5-tridecyloxybenzoyloxy)-4'-stilbazole (3DBSZ) and malonic acid, succinic acid, glutaric acid, adipic acid, pimelic acid, suberic acid, maleic acid, fumaric acid, 3,4,5,-tridecyloxybenzoic acid (3DBA) were prepared and their liquid crystalline properties were studied by using DSC, polarized optical microscopy and wide-angle x-ray diffraction. Most of the complexes exhibit columnar phases. Also, a new room temperature columnar complex was induced by the intermol. H bonding between 3DBSZ and 3DBA.

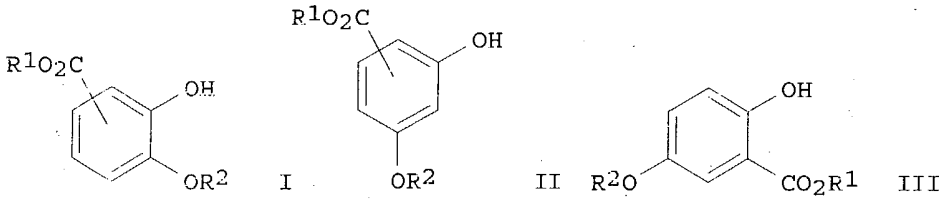
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Skin-lightening cosmetics containing organic compounds and glycosides
AN 1996:751628 CAPLUS
DN 126:36834
TI Skin-lightening cosmetics containing organic compounds and glycosides
IN Shinojima, Satoru; Suetsugu, Masaru; Sakamoto, Okihiko
PA Shiseido Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08268868	A2	19961015	JP 1995-101758	19950403
				JP 1995-101758	19950403

OS MARPAT 126:36834
GI



AB A cosmetic contains (1) ≥ 1 compound selected from the group comprising ascorbic acid and its derivs., placental extract, kojic acid and its derivs., azelaic acid and its derivs., glucosamine and its derivs., hydroquinone glycoside and its derivs., and (2) ≥ 1 compound selected from the group comprising I, II, and III (R1 = H, C1-20 saturated hydrocarbyl; one of R2 and R3 is sugar residue, while the other is H).

L29 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Ion-conductive polymer electrolyte, its production, and capacitors using it
AN 1996:338224 CAPLUS
DN 125:24138
TI Ion-conductive polymer electrolyte, its production, and capacitors using it
IN Kanbara, Teruhisa; Matsui, Tooru; Takeyama, Kenichi
PA Matsushita Electric Industrial Co., Ltd., Japan
SO Eur. Pat. Appl., 35 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 708452	A1	19960424	EP 1995-307380	19951017
	R: DE, FR, GB				
				JP 1994-251060 A	19941017
				JP 1994-252140 A	19941018
				JP 1995-65836 A	19950324
	JP 08330192	A2	19961213	JP 1995-256092	19951003

JP 3348810	B2	20021120	
			JP 1994-251060 A 19941017
			JP 1994-252140 A 19941018
			JP 1995-65836 A 19950324
US 5900182	A	19990504	US 1995-540681 19951011
			JP 1994-251060 A 19941017
			JP 1994-252140 A 19941018
			JP 1995-65836 A 19950324
CN 1129712	A	19960828	CN 1995-119944 19951017
CN 1053288	B	20000607	
			JP 1994-251060 A 19941017
			JP 1994-252140 A 19941018
US 6043975	A	20000328	US 1999-294553 19990420
			JP 1994-251060 A 19941017
			JP 1994-252140 A 19941018
			JP 1995-65836 A 19950324
			US 1995-540681 A319951011

AB An ion-conductive polymer electrolyte having a high ionic conductivity and high stability of both phys. and chemical properties is disclosed. It comprises a polymer containing ≥1 monomer selected from a hydroxyalkyl acrylate, a hydroxyalkyl methacrylate, and vinylene carbonate as its polymerizable ingredient, and ≥1 electrolyte salt. An Al electrolytic capacitor and an elec. double-layer capacitor configured with the electrolyte are also disclosed.

L29 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Supramolecular Chemistry. 49. Ligand-Porphyrin Complexes: Quantitative Evaluation of Stacking and Ionic Contributions
AN 1995:183465 CAPLUS
DN 122:171337
TI Supramolecular Chemistry. 49. Ligand-Porphyrin Complexes: Quantitative Evaluation of Stacking and Ionic Contributions
AU Schneider, Hans-Joerg; Wang, Manxue
CS Universitaet des Saarlandes, Saarbruecken, D66041, Germany
SO Journal of Organic Chemistry (1994), 59(24), 7464-72
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
AB Association energies of 3 porphyrins bearing meso-4-pyridinium, -4-anilinium, or -4-benzoate substituents (TPPyP, TPA, TCP) are evaluated in water with 23 different ligands. UV titrns. show excellent fit and constant values (usually ±10%) for the equilibrium consts. K evaluated at different wavelengths as well as isosbestic points, securing 1:1 complexes as well as negligible self-association of the porphyrins. Complexation-induced proton NMR shifts (CIS) show shielding of the ligands by up to -8.0 ppm and of up to -3.4 ppm on the porphyrins with aromatic ligands; they agree with tight face-to-face conformations. Ionic binding contributions can be factorized with 5.2 ± 1.1 kJ per mol and per salt bridge (or ion pair). After subtraction of the salt bridge increments, constant binding free energies are observed with ΔGvdw = 7.2 ± 1.5 kJ mol-1 for all benzene derivs. and ΔGvdw = 15.8 ± 1.8 kJ mol-1 for all naphthalene-like, and ΔGvdw = 18.5 ± 0.5 kJ mol-1 for phenanthrene-like derivs. Deviations are observed with bulky substituents like +NMe3 or SO3- groups which allow no close contact between the aromatic planes, as evident from CHARMm simulations. Heterocyclic electroneutral ligands show the same constant ΔGvdw values, independent of number and position of the heteroatoms. Comparison of 33 different ΔGvdw contributions with the number of double bonds occurring in the ligands yields, for the first time, a comprehensive description of stacking interactions with an increment of 1.4 ± 0.15 kJ per mol and π-electron. Measurements with saturated ligands of comparable surface show no ΔGvdw contributions, indicating that the stacking is not driven by solvophobic but by dispersive forces. Copper(II) in the porphyrins (CuTPPyP) leads within ±0.4 kJ mol-1 to the same association energies as without metal.

whereas introduction of zinc leads to a decrease by usually 3.4 kJ mol-1 . Axial orientations of the ligands are observed with complexes of α,ω-diaminoalkanes with a gable or sandwich Zn-porphyrin dimer. The ΔGcplx values, measured in chloroform, increase with the match between the Zn and the N atoms. Measurements of K in binary methanol-water mixts. with four complexes (e.g. TPPyP + phenanthroline) show linear correlations with solvent polarity or hydrophobicity parameters. Linear correlations are also found for the first time between the complexation-induced Soret band wavelength changes and the corresponding ΔGcplx values.

L29 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI The effect of metal ions on the structure of ion-cross-linked polyurethanes
AN 1994:681738 CAPLUS
DN 121:281738
TI The effect of metal ions on the structure of ion-cross-linked polyurethanes
AU Nizelsky, Yu. M.; Lipatov, Yu. S.; Kosyanchuk, L. F.; Rosovitsky, V. F.; Privalko, E. G.
CS Inst. Khim. Poverkh., Kiev, Ukraine
SO Dopovidi Akademii Nauk Ukraini (1993), (4), 125-30
CODEN: DNUKEM; ISSN: 1024-767X
DT Journal
LA English
AB The presence of ionic crosslinks in HMDI-poly(diethylene glycol adipate)-3,5-dihydroxybenzoic acid block polyurethane salts with Ba or Pb were confirmed by IR. The microphase structure of the ionically crosslinked polyurethanes were studied using DSC and dynamic mech. spectroscopy. The temperature dependences of the elasticity modulus and mech. loss were connected with the formation of crosslinks. The maximum intensity of endothermic relaxation was observed for Pb-containing polyurethanes, and these effects testified to the increasing ordering of hard blocks due to crosslinking.

L29 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
TI Therapeutically active phenothiazines
AN 1963:46768 CAPLUS
DN 58:46768
OREF 58:7952f-h,7953a
TI Therapeutically active phenothiazines
PA Lajos Toldy and Jozsef Borsy.
SO From: Ref. Zh., Khim. 1962, Abstr. No. 6L304..
DT Patent
LA Unavailable

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI HU 147896		19601230	HU	

GI For diagram(s), see printed CA Issue.
AB I (A = N, N'-piperazinediyl, R = acyl) and their salts, which have a sedative and cataleptic effect and low toxicity, are obtained by esterification of N-(β-hydroxyethyl)-N'-[γ-(3-chloro-10-phenothiazinyl)propyl]piperazine (II) or its active derivs. 3,4,5-Trimethoxybenzoyl chloride (III) (18 g.) added to a cooled solution of 9 g. II in 100 mL. pyridine, kept 24 h., the residue dissolved in CHCl3, rinsed with H2O, dried with MgSO4, concentrated by evaporation, the residue dissolved in 150 mL. alc., 5 g. fumaric acid and boiled several min. gave 13.5 g. of the difumarate of the trimethoxybenzoate of I, m. 194-6°. Similarly, salts of I esters were obtained (given are the ester and the m.p. of the difumarate) benzoate, 217-19°; p-chlorobenzoate, 215-17°; phenylacetate, 172-4°; diphenylacetate, 208-10° (from absolute alc.). A solution of 12 g. II and 0.8 g. metallic

Na in 80 mL. toluene boiled 12 h., cooled, 7.5 g. III added, boiled 2 h., rinsed with H2O, evaporated, the residue (15 g.) dissolved in 90 mL. absolute alc.
and boiled with 6 g. fumaric acid gave 17.5 g. of the difumarate of trimethoxybenzoate of I, m. 192-3°; dimalate m. 177-80°; diethanesulfonate m. 130-45°.

=>
=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	47.57	207.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.62	-7.62

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:34:14 ON 28 APR 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 06:44:54 ON 28 APR 2004
FILE 'CAPLUS' ENTERED AT 06:44:54 ON 28 APR 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	47.57	207.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.62	-7.62

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	47.57	207.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.62	-7.62

FILE 'REGISTRY' ENTERED AT 06:45:10 ON 28 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 APR 2004 HIGHEST RN 676992-14-6
DICTIONARY FILE UPDATES: 26 APR 2004 HIGHEST RN 676992-14-6

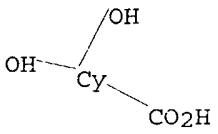
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

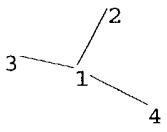
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Examination Auxillary files\10031950\10031950 most generic core
amdmt.str



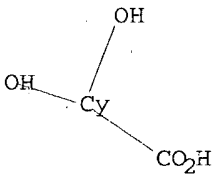


chain nodes :
1 2 3 4
chain bonds :
1-2 1-3 1-4
exact/norm bonds :
1-2 1-3 1-4

Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS
Generic attributes :
1:
Saturation : Unsaturated

L30 STRUCTURE UPLOADED

=> d l30
L30 HAS NO ANSWERS
L30 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l30 sss sam
SAMPLE SEARCH INITIATED 06:45:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 97853 TO ITERATE

1.0% PROCESSED 1000 ITERATIONS 13 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

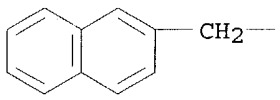
FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 23302

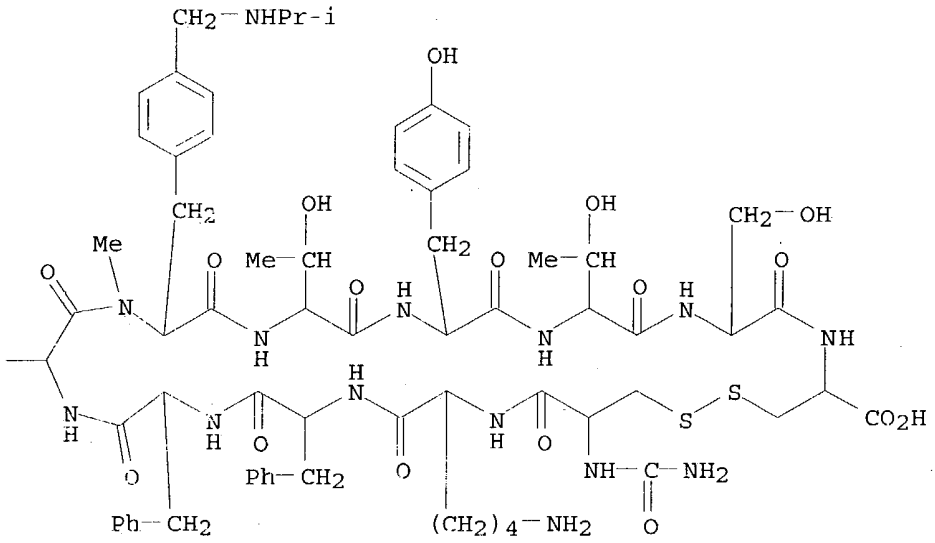
L31 13 SEA SSS SAM L30

=> d scan

L31 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN L-Cysteine, N-(aminocarbonyl)-L-cysteinyl-L-lysyl-L-phenylalanyl-L-phenylalanyl-3-(2-naphthalenyl)-D-alanyl-N-methyl-4-[[(1-methylethyl)amino]methyl]-L-phenylalanyl-L-threonyl-L-tyrosyl-L-threonyl-L-seryl-, cyclic (1→11)-disulfide (9CI)
SQL 11
MF C78 H100 N14 O17 S2

RELATED SEQUENCES AVAILABLE WITH SEQLINK





HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> search l30 sss full
FULL SEARCH INITIATED 06:46:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - >1,000,000 TO ITERATE

< 14.5% PROCESSED 284591 ITERATIONS 1268 ANSWERS

< 18.0% PROCESSED 352566 ITERATIONS 1727 ANSWERS

< 20.4% PROCESSED 400000 ITERATIONS 1797 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.42

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 8517

L32 1797 SEA SSS FUL L30

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	156.26	364.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.62

FILE 'CAPLUS' ENTERED AT 06:46:56 ON 28 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 28 Apr 2004 VOL 140 ISS 18
FILE LAST UPDATED: 27 Apr 2004 (20040427/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> l32
L33         593 L32

=> d his

     (FILE 'HOME' ENTERED AT 06:06:40 ON 28 APR 2004)

     FILE 'STNGUIDE' ENTERED AT 06:06:48 ON 28 APR 2004

     FILE 'HOME' ENTERED AT 06:06:51 ON 28 APR 2004

     FILE 'STNGUIDE' ENTERED AT 06:06:59 ON 28 APR 2004
                ACT HBAPP/L
                ---------
L1              STR
L2   (         33)SEA FILE=REGISTRY SSS SAM L1
L3              STR
L4   (         22)SEA FILE=REGISTRY SSS SAM L3
L5   (       7236)SEA FILE=REGISTRY SSS FUL L3
L6   (       1162)SEA FILE=CAPLUS ABB=ON  PLU=ON  L5
L7   (     291914)SEA FILE=CAPLUS ABB=ON  PLU=ON  POLYESTER
L8   (         14)SEA FILE=CAPLUS ABB=ON  PLU=ON  L6 AND L7
L9   (          1)SEA FILE=REGISTRY ABB=ON  PLU=ON  "3,5-DIACETOXYBENZOIC ACID"/C
L10  (         34)SEA FILE=CAPLUS ABB=ON  PLU=ON  L9
L11  (          8)SEA FILE=CAPLUS ABB=ON  PLU=ON  L7 AND L10
L12  (       4016)SEA FILE=CAPLUS ABB=ON  PLU=ON  DIHYDROXYBENZOIC
L13             STR
L14  (         50)SEA FILE=REGISTRY SSS SAM L13
L15  (      22581)SEA FILE=REGISTRY SSS FUL L13
L16  (      11229)SEA FILE=CAPLUS ABB=ON  PLU=ON  L15
L17  (          9)SEA FILE=CAPLUS ABB=ON  PLU=ON  L12 AND L16
L18  (          4)SEA FILE=CAPLUS ABB=ON  PLU=ON  L5 AND L16
                ---------

     FILE 'CAPLUS' ENTERED AT 06:07:25 ON 28 APR 2004
                ACT HBCORECMPDS/A
                ---------
L19             STR
L20  (       7236)SEA FILE=REGISTRY SSS FUL L19
L21          1162 SEA FILE=CAPLUS ABB=ON  PLU=ON  L20
                ---------
                ACT LINKERS/A
                ---------
L22             STR
L23  (      22581)SEA FILE=REGISTRY SSS FUL L22
L24         11229 SEA FILE=CAPLUS ABB=ON  PLU=ON  L23
                ---------

     FILE 'REGISTRY' ENTERED AT 06:12:41 ON 28 APR 2004
L25             STRUCTURE UPLOADED
```

```
L26             6 SEARCH L25 SSS SAM
L27          5119 SEARCH L25 SSS FULL

     FILE 'CAPLUS' ENTERED AT 06:13:59 ON 28 APR 2004
L28          2018 L27
L29            15 L24 AND L28

     FILE 'REGISTRY' ENTERED AT 06:45:10 ON 28 APR 2004
L30                STRUCTURE UPLOADED
L31            13 SEARCH L30 SSS SAM
L32          1797 SEARCH L30 SSS FULL

     FILE 'CAPLUS' ENTERED AT 06:46:56 ON 28 APR 2004
L33           593 L32

=> l32 and l34
L34 NOT FOUND
The L-number entered could not be found.  To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> l32 and l33
              593 L32
L34           593 L32 AND L33

=> l24 and l33
L35             6 L24 AND L33

=> d l35 1-6 ti

L35  ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Preparation of pyrrolo[3,4-e]indole and pyrrolo[3,4-c]carbazole
     derivatives for treatment of malignant tumor or brain neurodegenerative
     diseases

L35  ANSWER 2 OF 6  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Method for preparing water-soluble salts of polyene macrolide esters

L35  ANSWER 3 OF 6  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Electrolyte solutions for increased withstand voltage in electrolytic
     capacitors

L35  ANSWER 4 OF 6  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Ink jet ink composition containing a hyperbranched polymeric dye and
     printing method

L35  ANSWER 5 OF 6  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Preparation and mass spectra of avermectin salts substituted in the
     4"-position and having pesticidal properties

L35  ANSWER 6 OF 6  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Synthesis of polyamides having naphthalene ring with four reactive groups


=> d l35 6 ti fbib abs

L35  ANSWER 6 OF 6  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Synthesis of polyamides having naphthalene ring with four reactive groups
AN   2002:286942  CAPLUS
DN   137:201673
TI   Synthesis of polyamides having naphthalene ring with four reactive groups
AU   Ohuchi, Hiroshi; Iida, Takuya; Hirose, Takayuki; Shibamoto, Nobuyori;
     Ueda, Akira; Harada, Toshihiko; Fukuda, Akinori
CS   Sugai Chemical Industry Co., Ltd., Wakayama, 641-0045, Japan
SO   Kagaku to Kogyo (Osaka, Japan) (2002), 76(3), 113-120
```

CODEN: KKGOAG; ISSN: 0368-5918
PB Osaka Koken Kyokai
DT Journal
LA English
AB Polyamide were prepared by polycondensation of 1,5-dihydroxynaphthalene-2,6-dicarboxylic acid (1,5-DONDC) and aliphatic or aromatic diamines. These wholly- and semi-aromatic polyamides were soluble only in sulfuric acid solution Copolyamides having two reactive hybyoxy groups and incorporating few aliphatic dicarboxylic acids such as adipic acid on the naphthalene ring were prepared by polycondensation with various diamines. The copolyamides thus obtained exhibit stable melting state over a temperature range after melting, and therefore they can be processed. Also, 1,5-dimethoxynaphthalene-2,6-dicarboxylic acid (1,5-DMNDC) was prepared by etherification of two hydroxy groups of naphthalene ring with di-Me sulfate. Other copolyamides with such methoxy groups were prepared by polycondensation with various diamines, incorporating various dicarboxylic acids to the carboxylic group of naphthalene ring. The m.p. of copolyamide thus obtained is 259 th, implying high thermal resistance.
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.62	370.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.69	-8.31

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:49:43 ON 28 APR 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 07:17:40 ON 28 APR 2004
FILE 'CAPLUS' ENTERED AT 07:17:40 ON 28 APR 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.62	370.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.69	-8.31

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.62	370.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL

```
                                                        ENTRY     SESSION
CA SUBSCRIBER PRICE                                     -0.69       -8.31

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:17:47 ON 28 APR 2004

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 07:28:22 ON 28 APR 2004
FILE 'CAPLUS' ENTERED AT 07:28:22 ON 28 APR 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                 SINCE FILE      TOTAL
                                                        ENTRY     SESSION
FULL ESTIMATED COST                                      6.62      370.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)           SINCE FILE      TOTAL
                                                        ENTRY     SESSION
CA SUBSCRIBER PRICE                                     -0.69       -8.31

=> file scisearch
COST IN U.S. DOLLARS                                 SINCE FILE      TOTAL
                                                        ENTRY     SESSION
FULL ESTIMATED COST                                      6.62      370.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)           SINCE FILE      TOTAL
                                                        ENTRY     SESSION
CA SUBSCRIBER PRICE                                     -0.69       -8.31

FILE 'SCISEARCH' ENTERED AT 07:28:33 ON 28 APR 2004
COPYRIGHT 2004 THOMSON ISI

FILE COVERS 1974 TO 23 Apr 2004 (20040423/ED)

=> s wilson L M//RAU(S)18/RVL(S)347/RPG
           393 WILSON L M//RAU
       2841267 18/RVL
        447013 347/RPG
L36           8 WILSON L M//RAU(S)18/RVL(S)347/RPG

=> d 1 ibib abs hit

L36  ANSWER 1 OF 8  SCISEARCH  COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER:    2001:452267  SCISEARCH
THE GENUINE ARTICLE: 435KB
TITLE:               Synthesis of fluoro-substituted acrylic monomers bearing a
                     functionalized lateral chain - Part 1. Preparation of
                     sulfur-containing monomers
AUTHOR:              Pees A; Cahuzac A; Sindt M; Ameduri B (Reprint); Paul J M;
                     Boutevin B; Mieloszynski J L
CORPORATE SOURCE:    Univ Metz, Lab Chim Organ Synth & Applicat Organ Prod &
                     Proc, UFR Sci FA, F-57012 Metz 01, France (Reprint); Ecole
                     Natl Super Chim Montpellier, Lab Chim Macromol, UMR 5060,
                     F-34296 Montpellier, France; Atofina, Ctr Rech & Dev Est,
                     F-57501 St Avold, France; Atofina, CERDATO, Mat Lab,
```

F-27470 Serqvigny, France
COUNTRY OF AUTHOR: France
SOURCE: JOURNAL OF FLUORINE CHEMISTRY, (MAY 2001) Vol. 108, No. 2, pp. 133-142.
Publisher: ELSEVIER SCIENCE SA, PO BOX 564, 1001 LAUSANNE, SWITZERLAND.
ISSN: 0022-1139.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 65

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB The synthesis of sulfur-containing fluoroacrylic monomers CmF2m + 1(CH2)(2)S(CH2)(n)OC(O)CH=CH2 (where m = 6, 8 and n = 2-4, 11) is presented from a two-step procedure. The first deals with the radical addition of fluorinated mercaptans CmF2m +1(CH2)(2)SH onto omega-unsaturated alcohols leading to new omega -perfluorinated alcohols containing various polymethylene spacers CmF2m +1(CH2)(2)S(CH2)(n)OH according to the nature of the unsaturated alcohols. By-products were noted, resulting from the beta -addition of the thiyl radical onto the more hindered side of the alcohol. The proportion of linear and branched isomers is discussed according to the stability of the radical intermediates. These minor products were obtained selectively from other routes to confirm their presence in the reaction media. The second step deals with the acrylation reaction that occurred either in the presence of acryloyl chloride or from a Fisher esterification. Both reactions are described and discussed taking into account the nature of the starting alcohols. The formation of thiiranium ions as intermediates in the esterification of beta -sulfur-containing alcohols in acidic medium is established and the formation of regioisomers described according to this thiiranium moieties interposition. (C) 2001 Elsevier Science B.V. All rights reserved.

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	
WILSON L M	1995	18	347	LIQ CRYST	<--

=> d 2-8 ibib abs hit

L36 ANSWER 2 OF 8 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 2001:229986 SCISEARCH
THE GENUINE ARTICLE: 408FR
TITLE: Conformational composition and molecular mobility in comb-shaped polymers with fluoroalkyl side groups: Study by IR spectroscopy and quantum chemistry
AUTHOR: Volkov V V (Reprint); Fadeev A G; Bondarenko G N; Kajiyama T; Plate N A
CORPORATE SOURCE: Russian Acad Sci, Topchiev Inst Petrochem Synth, Leninskii Pr 29, Moscow 117912, Russia (Reprint); Russian Acad Sci, Topchiev Inst Petrochem Synth, Moscow 117912, Russia; Kyushu Univ, Fac Engn, Dept Chem Sci & Technol, Higashi Ku, Fukuoka 812, Japan
COUNTRY OF AUTHOR: Russia; Japan
SOURCE: POLYMER SCIENCE SERIES A, (FEB 2001) Vol. 43, No. 2, pp. 148-158.
Publisher: INTERPERIODICA, PO BOX 1831, BIRMINGHAM, AL 35201-1831 USA.
ISSN: 0965-545X.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 28

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB IR spectra of comb-shaped polymers with fluoroalkyl side groups were studied in the 293-373 K range. It was shown that a number of absorption

bands sharply change their intensity in the region of the phase transitions of poly(fluoroalkyl acrylate) and poly(fluoroalkyl methacrylate) in contrast to the amorphous poly(fluoroalkyl fumarate). The methods of vibrational spectroscopy and quantum chemistry were employed to study the structure and conformational composition of a comb-shaped poly(fluoroalkyl acrylate) exhibiting LC properties; it was established that four stable conformations of the polymer can exist. Using experimental and theoretical methods of vibrational spectroscopy, it was demonstrated that, in the phase transition of poly(fluoroalkyl acrylate) at 350 K, conformational changes are observed in the side chain of the polymer and these changes involve a rotation about a C-O bond of an ester group which leads to the breakdown of the layered structures formed by the side fluoroalkyl groups.

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	
WILSON L M	1995	18	347	LIQ CRYST	<--

L36 ANSWER 3 OF 8 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 97:871602 SCISEARCH
THE GENUINE ARTICLE: YE815
TITLE: Synthesis and evaluation of novel side chain liquid crystal polymers with a single aromatic unit
AUTHOR: Bao X J (Reprint); Dix L R
CORPORATE SOURCE: NORTHUMBRIA UNIV, DEPT CHEM & LIFE SCI, NEWCASTLE TYNE NE1 8ST, TYNE & WEAR, ENGLAND (Reprint)
COUNTRY OF AUTHOR: ENGLAND
SOURCE: MOLECULAR CRYSTALS AND LIQUID CRYSTALS SCIENCE AND TECHNOLOGY SECTION A-MOLECULAR CRYSTALS AND LIQUID CRYSTALS, (1 DEC 1997) Vol. 304, pp. 41-46.
Publisher: GORDON BREACH SCI PUBL LTD, C/O STBS LTD, PO BOX 90, READING, BERKS, ENGLAND RG1 8JL.
ISSN: 1058-725X.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: PHYS
LANGUAGE: English
REFERENCE COUNT: 6

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB Polyacrylates with a 3-nitro-4-(1,1,2,2-tetrahydroperflurcalkyl) benzoate unit as a side chain substituent have been synthesised. These materials form rare examples of side chain thermotropic polymers containing a single aromatic unit. These polymers form smectic phases only. The phase behaviour has been investigated by optical microscopy and d.s.c.

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	
WILSON L M	1995	18	347	LIQ CRYST	<--

L36 ANSWER 4 OF 8 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 97:82751 SCISEARCH
THE GENUINE ARTICLE: WC941
TITLE: Fluorophobic effect generates a systematic approach to the synthesis of the simplest class of rodlike liquid crystals containing a single benzene unit
AUTHOR: Johansson G; Percec V (Reprint); Ungar G; Smith K
CORPORATE SOURCE: CASE WESTERN RESERVE UNIV, DEPT MACROMOL SCI, WM KECK LABS ORGAN SYNTH, CLEVELAND, OH 44106 (Reprint); CASE WESTERN RESERVE UNIV, DEPT MACROMOL SCI, WM KECK LABS ORGAN SYNTH, CLEVELAND, OH 44106; UNIV SHEFFIELD, DEPT MAT ENGN, SHEFFIELD S1 4DU, S YORKSHIRE, ENGLAND; UNIV SHEFFIELD, CTR MOL MAT, SHEFFIELD S1 4DU, S YORKSHIRE, ENGLAND
COUNTRY OF AUTHOR: USA; ENGLAND
SOURCE: CHEMISTRY OF MATERIALS, (JAN 1997) Vol. 9, No. 1, pp.

164-175.
Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036.
ISSN: 0897-4756.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: PHYS; ENGI
LANGUAGE: English
REFERENCE COUNT: 57

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB 4-Substituted n-5,5,6,6,7,7,8,8,9,9,10,10,10-tridecafluorodecan-1-yloxybenzences, n-5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-heptadecafluorododecan-1-yloxybenzenes, and 2-methyl-4-substituted n-5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heptadecafluorododecan-1-yloxybenzenes benzenes were synthesized and characterized by a combination of techniques consisting of differential scanning calorimetry (DSC), thermal optical polarized microscopy, and small- and wide-angle X-ray diffraction. Thermotropic s(A) and s(C) LC phases are exhibited by compounds with NO2, CN, CO2CH3, CH2OH, CO2H, and COCH3 substituents in the 4-position of the benzene ring. The thermal stability of the LC phase of these compounds increases with the increase of the length of the perfluorinated segment of their alkoxy group. A ratio of the perhydrogenated [(CH2)(m)]/perfluorinated [F(CF2)(n)] segment lengths of m/n < 1 favors the formation of LC phases when n + m = 10 and 12. Additional substitution in the 2-position of the benzene ring with a methyl group decreases the thermal stability of the LC phase. The s(A) phase of these compounds has a bilayered structure in which the perfluorinated segments are interdigitated. These compounds represent the simplest class of rodlike liquid crystals containing a single benzene unit which exhibit classic calamitic phases. The experiments reported in this paper demonstrate a simple and convenient method for the synthesis of liquid crystals containing a single benzene unit via the fluorophobic effect.

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	
WILSON L M	1995	18	347	LIQ CRYST	<--

L36 ANSWER 5 OF 8 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 97:22576 SCISEARCH
THE GENUINE ARTICLE: VZ271
TITLE: X-ray diffraction by liquid crystalline side-chain polymers
AUTHOR: Davidson P (Reprint)
CORPORATE SOURCE: UNIV PARIS 11, CNRS, PHYS SOLIDES LAB, BAT 510, F-91405 ORSAY, FRANCE (Reprint); UNIV CALIF SANTA BARBARA, MAT RES LAB, SANTA BARBARA, CA 93106
COUNTRY OF AUTHOR: FRANCE; USA
SOURCE: PROGRESS IN POLYMER SCIENCE, (30 NOV 1996) Vol. 21, No. 5, pp. 893-950.
Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD, ENGLAND OX5 1GB.
ISSN: 0079-6700.
DOCUMENT TYPE: General Review; Journal
FILE SEGMENT: PHYS
LANGUAGE: English
REFERENCE COUNT: 252

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB This article presents a survey of the literature on X-ray diffraction by mesomorphic side-chain polymers. The first part shows how the polymorphism of these compounds is usually determined with simple experimental techniques. This part also describes how the same techniques can be used to derive more structural information: (1) the exploitation of the wide angle diffuse ring thanks to an easy procedure allows one to measure the nematic order parameter; and (2) the exploitation of the

reflections from the smectic layers allows one to study the backbone localization in the smectic phases. The second part describes the observation of different kinds of short range correlations and localized defects through their contribution to the X-ray diffuse scattering. This more elaborate type of study gives access to the elastic properties and, therefore, a more detailed insight into the physics of polymeric mesophases. Copyright (C) 1996 Elsevier Science Ltd.

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	
WILSON L M	1995	18	347	LIQ CRYST	<--

L36 ANSWER 6 OF 8 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 96:772272 SCISEARCH
THE GENUINE ARTICLE: VM937
TITLE: FLUOROPHOBIC EFFECT INDUCES THE SELF-ASSEMBLY OF SEMIFLUORINATED TAPERED MONODENDRONS CONTAINING CROWN-ETHERS INTO SUPRAMOLECULAR COLUMNAR DENDRIMERS WHICH EXHIBIT A HOMEOTROPIC HEXAGONAL COLUMNAR LIQUID-CRYSTALLINE PHASE
AUTHOR: PERCEC V (Reprint); JOHANSSON G; UNGAR G; ZHOU J P
CORPORATE SOURCE: CASE WESTERN RESERVE UNIV, DEPT MACROMOL SCI, WM KECK LABS ORGAN SYNTH, CLEVELAND, OH, 44106 (Reprint); UNIV SHEFFIELD, DEPT MAT ENGN, SHEFFIELD S1 4DU, S YORKSHIRE, ENGLAND; UNIV SHEFFIELD, CTR MOL MAT, SHEFFIELD S1 4DU, S YORKSHIRE, ENGLAND
COUNTRY OF AUTHOR: USA; ENGLAND
SOURCE: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, (16 OCT 1996) Vol. 118, No. 41, pp. 9855-9866. ISSN: 0002-7863.
DOCUMENT TYPE: General Review; Journal
FILE SEGMENT: PHYS; LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 167

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB The rational design, synthesis, and characterization of the building blocks obtained by the esterification of the first generation of tapered monodendrons 3,4,5-tris(p-dodecan-1-yloxy)benzoic acid (12-AG) and 3,3,5-tris[p-(n-dodecan-1-yloxy)benzyloxy]benzoic acid (12-ABG) containing semifluorinated dodecyl groups [i.e., 12Fn-AG-15C5 (n = 0, 4, 6, 8), 12Fn-AG-B15C5, 12Fn-ABG-15C5, and 12Fn-ABG-B15C5 (n = 0 and 8) where n following the letter F represents the number of outer perfluorinated methylenic units of the dodecyl group] with 4'-hydroxymethyl(benzo-15-crown-5) (B15C5) and 1-hydroxymethyl(15-crown-5) (15C5) are described. All building blocks self-assemble into supramolecular cylindrical or rod-like dendrimers via ion-mediated complexation processes. These rod-like supermolecules form a thermotropic hexagonal columnar (Phi(h)) liquid crystalline (LC) phase. The fluorination of the dodecyl groups of these tapered building blocks enhances dramatically their self-assembly ability. The building blocks based on n = 6 and 8 self-assemble into supramolecular columns solely via the fluorophobic effect. Direct structural characterization of the supramolecular columns obtained via these two molecular recognition processes by a combination of techniques consisting of differential scanning calorimetry, X-ray diffraction, and thermal optical polarized microscopy, and of the columns obtained solely via the fluorophobic effect allowed the construction of molecular models for the supramolecular columns obtained via these two organizing forces. An increase in the column diameter with increasing n and with the complexation of metal salts (i.e., alkali metal trifluoromethanesulfonates) accounts for a structural model in which the uncomplexed and complexed crown ethers are placed side-by-side in the center of the column with the melted tapered side groups radiating toward its periphery. The perfluorinated segments of the building blocks are microsegregated from the perhydrogenated and aromatic segments of the

column. The supramolecular columns obtained from building blocks with n = 8 align homeotropically in the Phi(h) LC phase on untreated glass slides, i.e., form single crystal liquid crystals in which the long axes of their columns are perpendicular to the glass surface. Both the self-assembly of supramolecular columns induced solely by the fluorophobic effect and the homeotropic alignment of these columns in their Phi(h) LC phase open extremely interesting new synthetic and technologic opportunities in the area of self-assembly of well-defined supramolecular architectures obtained from monodendrons and other building blocks.

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	
WILSON L M	1995	18	347	LIQ CRYST	<--

L36 ANSWER 7 OF 8 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 96:87960 SCISEARCH
THE GENUINE ARTICLE: TQ379
TITLE: FLUOROPHOBIC EFFECT IN THE SELF-ASSEMBLY OF POLYMERS AND MODEL COMPOUNDS CONTAINING TAPERED GROUPS INTO SUPRAMOLECULAR COLUMNS
AUTHOR: JOHANSSON G; PERCEC V (Reprint); UNGAR G; ZHOU J P
CORPORATE SOURCE: CASE WESTERN RESERVE UNIV, DEPT MACROMOLEC SCI, WM KECK LABS ORGAN SYNTH, CLEVELAND, OH, 44106 (Reprint); CASE WESTERN RESERVE UNIV, DEPT MACROMOLEC SCI, WM KECK LABS ORGAN SYNTH, CLEVELAND, OH, 44106; UNIV SHEFFIELD, DEPT MAT ENGN, SHEFFIELD S1 4DU, S YORKSHIRE, ENGLAND; UNIV SHEFFIELD, CTR MOLEC MAT, SHEFFIELD S1 4DU, S YORKSHIRE, ENGLAND
COUNTRY OF AUTHOR: USA; ENGLAND
SOURCE: MACROMOLECULES, (15 JAN 1996) Vol. 29, No. 2, pp. 646-660. ISSN: 0024-9297.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: PHYS
LANGUAGE: ENGLISH
REFERENCE COUNT: 69

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB The synthesis and characterization of the tapered building blocks 3,4,5-tris(1H,1H,2H,2H,3H,3H,4H,4H,5H,5H,6H,6H,7H,7H,8H,8H-perfluorododecan-1-yloxy)benzoic acid (11-8/4), 3,4,5-tris(1H,1H,2H,2H,3H,3H,4H,4H,5H,5H,GH,6H-perfluorododecan-1-yloxy)benzoic acid (11-6/6), 3,4,5-tris(1H,1H,2H,2H,3H,3H,4H,4H-perfluorododecan-1-yloxy)benzoic acid (11-4/8), 2-{2-[2-(2-hydroxyethoxy)ethoxy]ethoxy}ethyl 3,4,5-tris(1H,1H,2H,2H,3H,3H,4H,4H,5H,5H,6H,6H,7H,7H,8H,8H-perfluorododecan-1-yloxy)benzoate (19-8/4), 2-{2-[2-(2-hydroxyethoxy)ethoxy]ethoxy}ethyl 3,4,5-tris(1H,1H,2H,2H,3H,3H,4H,4H,5H,5H,6H,6H-perfluorododecan-1-yloxy)benzoate (19-6/6), and 2-{2-[2-(2-hydroxyethoxy)ethoxy]ethoxy}ethyl 3,4,5-tris(1H,1H,2H,2H,3H,3H,4H,4H-perfluorododecan-1-yloxy)benzoate (19-4/8) and of the methacrylates and polymethacrylates of 19-8/4, 19-6/6, and 19-4/8 (i.e, 20-8/4, 20-6/6, 20-4/8 and respectively 21-8/4, 21-6/6, and 21-4/8) are described. All tapered building blocks 11-m/n, 19-m/n, and the polymers 21-m/n (where m + n = 12 and m = number of hydrogenated, n = number of perfluorinated methylenic groups of their alkyl tails) self-assemble into tubular supramolecular architectures which display an enantiotropic hexagonal columnar (Phi(h)) mesophase. The self-assembling ability of model compounds and polymers was compared to that of their perhydrogenated analogues. From the perhydrogenated compounds, only the polymer 21-12/0 forms a Phi(h) phase. Semifluorination of all model compounds and polymers first decreases the melting temperature of the supramolecular assembly and uncovers and/or enhances the thermal stability of the Phi(h) phase (n = 4). A further increase of n from 4 to 6 and respectively 8 increases both the isotropization temperature of the Phi(h) phase and the melting temperature. A parallel increase of the diameter of the supramolecular columns with the increase of n is observed. A mechanism

for this dramatic increase in the self-assembly process via microsegregation of the perfluorinated and perhydrogenated parts of the tapered groups due to the fluorophobic effect was proposed.

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	
WILSON L M	1995	18	347	LIQ CRYST	<--

L36 ANSWER 8 OF 8 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
ACCESSION NUMBER: 96:33864 SCISEARCH
THE GENUINE ARTICLE: TL656
TITLE: DRAMATIC STABILIZATION OF A HEXAGONAL COLUMNAR MESOPHASE GENERATED FROM SUPRAMOLECULAR AND MACROMOLECULAR COLUMNS BY THE SEMIFLUORINATION OF THE ALKYL-GROUPS OF THEIR TAPERED BUILDING-BLOCKS
AUTHOR: PERCEC V (Reprint); SCHLUETER D; KWON Y K; BLACKWELL J; MOLLER M; SLANGEN P J
CORPORATE SOURCE: CASE WESTERN RESERVE UNIV, DEPT MACROMOLEC SCI, CLEVELAND, OH, 44106 (Reprint); UNIV ULM, ORGAN CHEM LAB 3, D-89069 ULM, GERMANY
COUNTRY OF AUTHOR: USA; GERMANY
SOURCE: MACROMOLECULES, (18 DEC 1995) Vol. 28, No. 26, pp. 8807-8818.
ISSN: 0024-9297.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: PHYS
LANGUAGE: ENGLISH
REFERENCE COUNT: 39

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB The tapered building blocks 3,4,5-tris[(4-(n-decan-1-yloxy)benzyl)oxy]benzoic acid (8-10/0), 3,4,5-tris [(4-((5,5,6,6,7,7,8,8,9,9,10,10,10-tridecafluoro-n-decan-1-yl)oxy)benzyl)oxy] benzoic acid (8-4/6), 2-{2-[2-(2-hydroxyethoxy)ethoxy]ethoxy}ethyl 3,4,5-tris[(4-(n-decan-1-yloxy)benzyl)oxy]benzoate (11-10/0), 2-{2-[2-(2-hydroxyethoxy)ethoxy]ethoxy}ethyl 3,4,5-tris[(4-((5,5,6,6,7,7,8,8,9,9,10,10,10-tridecafluoro-n-decan-1-yl)oxy)benzyl)oxy] benzoate (11-4/6), 2-{2-[2-(2-hydroxyethoxy)ethoxy]ethoxy}ethyl 3,4,5-tris(n-decan-1-yloxy)benzoate (18-10/0), 2{2-[2-(2-hydroxyethoxy)ethoxy]ethoxy}ethyl 3,4,5-tris((5,5,6,6,7,7,8,8,9,9,10,10,10-tridecafluoro-n-decan-1-yl)oxy)benzoate (18-4/6), the methacrylates of 11-10/0 (12-10/0), 11-4/6 (12-4/6), 18-10/0 (19-10/0), and 18-4/6 (18-4/6), and the corresponding polymethacrylates 13-10/0, 13-4/6, 20-10/0, and 20-4/6 were synthesized and characterized. With the exception of 8-10/0 which forms a smectic mesophase, all other building blocks and polymers self-assemble into tubular supra: molecular architectures which generate hexagonal columnar (Phi(h)) mesophases. The fluorination of six out of the ten methylene units of the alkyl tails of these compounds induces a dramatic stabilization of their Phi(h). In the case when the parent hydrogenated compound (8-10/0) forms a lamellar smectic mesophase or only a crystalline phase (18-10/0), fluorination generates a Phi(h) mesophase.

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	
WILSON L M	1995	18	347	LIQ CRYST	<--

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	64.70	435.47

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION

CA SUBSCRIBER PRICE 0.00 -8.31

FILE 'CAPLUS' ENTERED AT 07:33:52 ON 28 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 28 Apr 2004 VOL 140 ISS 18
FILE LAST UPDATED: 27 Apr 2004 (20040427/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 06:06:40 ON 28 APR 2004)

FILE 'STNGUIDE' ENTERED AT 06:06:48 ON 28 APR 2004

FILE 'HOME' ENTERED AT 06:06:51 ON 28 APR 2004

FILE 'STNGUIDE' ENTERED AT 06:06:59 ON 28 APR 2004
ACT HBAPP/L

L1 STR
L2 (33) SEA FILE=REGISTRY SSS SAM L1
L3 STR
L4 (22) SEA FILE=REGISTRY SSS SAM L3
L5 (7236) SEA FILE=REGISTRY SSS FUL L3
L6 (1162) SEA FILE=CAPLUS ABB=ON PLU=ON L5
L7 (291914) SEA FILE=CAPLUS ABB=ON PLU=ON POLYESTER
L8 (14) SEA FILE=CAPLUS ABB=ON PLU=ON L6 AND L7
L9 (1) SEA FILE=REGISTRY ABB=ON PLU=ON "3,5-DIACETOXYBENZOIC ACID"/C
L10 (34) SEA FILE=CAPLUS ABB=ON PLU=ON L9
L11 (8) SEA FILE=CAPLUS ABB=ON PLU=ON L7 AND L10
L12 (4016) SEA FILE=CAPLUS ABB=ON PLU=ON DIHYDROXYBENZOIC
L13 STR
L14 (50) SEA FILE=REGISTRY SSS SAM L13
L15 (22581) SEA FILE=REGISTRY SSS FUL L13
L16 (11229) SEA FILE=CAPLUS ABB=ON PLU=ON L15
L17 (9) SEA FILE=CAPLUS ABB=ON PLU=ON L12 AND L16
L18 (4) SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND L16

FILE 'CAPLUS' ENTERED AT 06:07:25 ON 28 APR 2004
ACT HBCORECMPDS/A

L19 STR
L20 (7236) SEA FILE=REGISTRY SSS FUL L19
L21 1162 SEA FILE=CAPLUS ABB=ON PLU=ON L20

ACT LINKERS/A

```
                ---------
L22               STR
L23 (      22581) SEA FILE=REGISTRY SSS FUL L22
L24        11229 SEA FILE=CAPLUS ABB=ON  PLU=ON  L23
                ---------

     FILE 'REGISTRY' ENTERED AT 06:12:41 ON 28 APR 2004
L25               STRUCTURE UPLOADED
L26             6 SEARCH L25 SSS SAM
L27          5119 SEARCH L25 SSS FULL

     FILE 'CAPLUS' ENTERED AT 06:13:59 ON 28 APR 2004
L28          2018 L27
L29            15 L24 AND L28

     FILE 'REGISTRY' ENTERED AT 06:45:10 ON 28 APR 2004
L30               STRUCTURE UPLOADED
L31            13 SEARCH L30 SSS SAM
L32          1797 SEARCH L30 SSS FULL

     FILE 'CAPLUS' ENTERED AT 06:46:56 ON 28 APR 2004
L33           593 L32
L34           593 L32 AND L33
L35             6 L24 AND L33

     FILE 'SCISEARCH' ENTERED AT 07:28:33 ON 28 APR 2004
L36             8 S WILSON L M//RAU(S)18/RVL(S)347/RPG

     FILE 'CAPLUS' ENTERED AT 07:33:52 ON 28 APR 2004

=> dihydroxybenzoic
L37         4019 DIHYDROXYBENZOIC

=> l7 and l37
          232996 POLYESTER
          188722 POLYESTERS
          292356 POLYESTER
                 (POLYESTER OR POLYESTERS)
L38          105 L7 AND L37

=> l24 and l38
L39            3 L24 AND L38

=> d l39 1-3 ti

L39  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Polymerizable group-containing diols and their polymerizable
     group-containing polyesters, liquid crystalline compositions,
     and cured polymers

L39  ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Effect of metal compounds on the surface properties of the solid
     polyurethanes being formed in their presence

L39  ANSWER 3 OF 3  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   novel fluorocarbon side-chain polyesters based on 3,5-
     dihydroxybenzoic acid


=> d l39 1-3 ti fbib abs

L39  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Polymerizable group-containing diols and their polymerizable
     group-containing polyesters, liquid crystalline compositions,
```

and cured polymers
AN 2003:868178 CAPLUS
DN 139:371609
TI Polymerizable group-containing diols and their polymerizable group-containing **polyesters**, liquid crystalline compositions, and cured polymers
IN Yumoto, Masatoshi; Ichihashi, Mitsuyoshi; Kuroiwa, Ryuichi
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2003313278	A2	20031106	JP 2002-120472	20020423
			JP 2002-120472	20020423

OS MARPAT 139:371609
AB The **polyesters** comprise structure units represented by general formulas -O-A-O- derived from the diols (A = benzene ring, cyclohexane ring which may be substituted with -XLP, halo, alkyl, or alkoxy group; P = polymerizable group; L = single bond, O, CO2, CONH, NHCO, CH2O, CH2NR1, CH2NR2CO, CH2O.COl R1, R2 = H, alkyl) and COBCO (B = divalent substituent). Polymers of the **polyesters** have stability in optical properties in high-temperature environment and give films having high mech. strength and scratch resistance. The liquid crystalline compns. contain the **polyesters** and optionally, optically active compds. and/or liquid crystalline compds. bearing 1 or 2 polymerizable groups.

L39 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI Effect of metal compounds on the surface properties of the solid polyurethanes being formed in their presence
AN 1998:33761 CAPLUS
DN 128:89472
TI Effect of metal compounds on the surface properties of the solid polyurethanes being formed in their presence
AU Lipatov, Yu. S.; Kosyanchuck, L. F.; Kozak, N. V.; Nizelskii, Yu. N.; Fainerman, A. E.
CS Institute of Macromolecular Chemistry of NAS of Ukraine, Kiev, 253160, Ukraine
SO Journal of Polymer Materials (1997), 14(3), 263-268
CODEN: JOPME8; ISSN: 0970-0838
PB Oxford & IBH Publishing Co. Pvt. Ltd.
DT Journal
LA English
AB The presence of metal compds. in a reaction mixture can affect the surface tension of the forming polyurethane (PU). Studies presented here relate to the surface properties of PUs having metal ions introduced into them through four different ways: (i) filling with a metal compound (ii) metal ion crosslinking, (iii) metal ion chain-extending and (i.v.) diffusion of a metal compound from its solution to polymer. The surface properties of metal containing PU depend much less on the quantity of the introduced metal than on the corresponding modification of polymer structure. For example, the γsg of Cr(acac)3 (0.18% weight/weight) filled PU changes up to 8 mN/m, whereas the γsg of Pb (15%) crosslinked PU changes up to 0.3 mN/m as compared with free PU. The value of γsg change depends on the method of introduction of the metal compound in polymer. The nature of the metal and the types of glycol and isocyanate components of the PU can also influence the relative value of the γsg change.
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI novel fluorocarbon side-chain **polyesters** based on 3,5-

dihydroxybenzoic acid
AN 1995:476680 CAPLUS
DN 123:34117
TI novel fluorocarbon side-chain **polyesters** based on 3,5-**dihydroxybenzoic** acid
AU Wilson, L. M.
CS Melville Lab. Polymer Synthesis, Univ. Cambridge, Cambridge, CB2 3RA, UK
SO Liquid Crystals (1995), 18(2), 347-50
CODEN: LICRE6; ISSN: 0267-8292
PB Taylor & Francis
DT Journal
LA English
AB Perfluoroalkyl side-chain **polyesters** with aliphatic hydrocarbon backbone spacers of different chain lengths have been synthesized in high yield directly from the hydrocarbon diacid and perfluoroalkyl 3,5-dihydroxybenzoate. Mol. wts. up to 22,000 .hivin.Mn were obtained. The linear mesogenic perfluoroalkyl segment lengths -(CF2)n- were varied; **polyesters** with n = 10 and 7 show crystalline and liquid-crystalline phases, while with n = 6, mainly amorphous **polyesters** were obtained. The mesophases were investigated by polarizing optical microscopy, DSC, and X-ray diffraction. They have a grainy optical texture in the POM and give multiple transitions on DSC. In these polymers, both the nature of the mesogenic group and the dilution of the mesogenic side-chains along the polymer backbone can be varied.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.39	449.86

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL

L Number	Hits	Search Text	DB	Time stamp
1	1731	supramolecular	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52
2	37560	salicylic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52
3	84	supramolecular and salicylic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52
4	12034	$dioic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52
5	0	5510402.URPN.	USPAT	2004/04/28 05:52
6	3012	dihydroxybenzoic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 09:12
7	20879	hydrogen adj bond	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52
8	0	supramolecular and 560/143.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52
9	1642913	polymer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52
10	1871	dihydroxybenzoic and polymer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52
11	7	dihydroxybenzoic near4 polymer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52
12	4	$dioic and (dihydroxybenzoic same polymer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52
13	0	$dioic near4 dihydroxybenzoic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
14	1120	polyester and dihydroxybenzoic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
15	489344	polyester	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
16	56433	adipic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
17	445	(polyester and dihydroxybenzoic) and adipic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
18	575	"2,5-dihydroxybenzoic"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53

19	371	"2,3-dihydroxybenzoic"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
20	852	"2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
21	115	adipic and ("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
22	0	("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic") and (adipic and supramolecular)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
23	77866	end adj cap	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
24	0	("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic") same (end adj cap)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
25	4038	"end-cap" or "end-capping"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
26	0	("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic") and ("end-cap" or "end-capping")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
27	3	(supramolecular and salicylic) and $dioic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
28	3	("2002071822").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
29	3	2002071822.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
30	2	5510402.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
31	6	1375960.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
32	18	supramolecular and dihydroxybenzoic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 07:07
33	106	560/143.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
34	3	dihydroxybenzoic and 560/143.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
35	3	632143.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
36	7	dihydroxybenzoic near2 polymer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53

37	2	3772052.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
38	236	dihydroxybenzoic same polymer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
39	94	$dioic and dihydroxybenzoic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
40	1	(hydrogen adj bond) and 560/143.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
41	137	dihydroxybenzoic and (hydrogen adj bond)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
42	3	3836491.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
43	73	polyester same dihydroxybenzoic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
44	38	(polyester same dihydroxybenzoic) and adipic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
45	43	adipic and supramolecular	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
46	60	adipic and (polyester and ("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic"))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 07:25
47	13	adipic same ("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
48	8	8803805.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53
49	153	polyester and ("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:54
50	2	("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic") and (end adj cap)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:54
51	2	5362843.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:54
52	2	5196502.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:54
53	8038	melt adj extrusion	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 09:09
54	1		USPAT	2004/04/28 07:12
55	1		USPAT	2004/04/28 07:20
56	1		USPAT	2004/04/28 07:20
57	1		USPAT	2004/04/28 07:20

58	1		USPAT	2004/04/28 07:20
59	1		USPAT	2004/04/28 07:22
60	1		USPAT	2004/04/28 07:23
61	1		USPAT	2004/04/28 07:23
62	1		USPAT	2004/04/28 07:23
63	4	(polyester same dihydroxybenzoic) and (melt adj extrusion)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 09:10
64	1120	dihydroxybenzoic and polyester	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 09:12
65	73	dihydroxybenzoic same polyester	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 09:12
66	0	(melt adj extrusion) same (dihydroxybenzoic same polyester)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 09:12
67	4	(melt adj extrusion) and (dihydroxybenzoic same polyester)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 09:13

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
1	BRS	L1	1731	supramolecular	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52		
2	BRS	L2	37560	salicylic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52		
3	BRS	L3	84	supramolecular and salicylic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52		
4	BRS	L4	12034	$dioic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52		
5	BRS	L5	0	5510402.URPN.	USPAT	2004/04/28 05:52		
6	BRS	L6	3012	dihydroxybenzoic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 09:12		
7	BRS	L7	20879	hydrogen adj bond	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52		
8	BRS	L8	0	supramolecular and 560/143.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52		

	Errors
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
9	BRS	L9	1642913	polymer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52		
10	BRS	L10	1871	dihydroxybenzoic and polymer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52		
11	BRS	L11	7	dihydroxybenzoic near4 polymer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52		
12	BRS	L12	4	$dioic and (dihydroxybenzoic same polymer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:52		
13	BRS	L13	0	$dioic near4 dihydroxybenzoic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
14	BRS	L14	1120	polyester and dihydroxybenzoic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
15	BRS	L15	489344	polyester	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		

	Errors
9	0
10	0
11	0
12	0
13	0
14	0
15	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
16	BRS	L16	56433	adipic	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
17	BRS	L17	445	(polyester and dihydroxybenzoic) and adipic	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
18	BRS	L18	575	"2,5-dihydroxybenzoic"	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
19	BRS	L19	371	"2,3-dihydroxybenzoic"	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
20	BRS	L20	852	"2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic"	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
21	BRS	L21	115	adipic and ("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic")	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
22	BRS	L22	0	("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic") and (adipic and supramolecular)	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		

	Errors
16	0
17	0
18	0
19	0
20	0
21	0
22	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
23	BRS	L23	77866	end adj cap	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
24	BRS	L24	0	("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic") same (end adj cap)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
25	BRS	L25	4038	"end-cap" or "end-capping"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
26	BRS	L26	0	("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic") and ("end-cap" or "end-capping")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
27	BRS	L27	3	(supramolecular and salicylic) and $dioic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
28	IS&R	L28	3	("2002071822").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
29	BRS	L29	3	2002071822.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		

	Errors
23	0
24	0
25	0
26	0
27	0
28	0
29	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
30	BRS	L30	2	5510402.pn.	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
31	BRS	L31	6	1375960.pn.	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
32	BRS	L32	18	supramolecular and dihydroxybenzoic	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 07:07		
33	BRS	L33	106	560/143.ccls.	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
34	BRS	L34	3	dihydroxybenzoic and 560/143.ccls.	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
35	BRS	L35	3	632143.pn.	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
36	BRS	L36	7	dihydroxybenzoic near2 polymer	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		

	Errors
30	0
31	0
32	0
33	0
34	0
35	0
36	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
37	BRS	L37	2	3772052.pn.	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
38	BRS	L38	236	dihydroxybenzoic same polymer	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
39	BRS	L39	94	$dioic and dihydroxybenzoic	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
40	BRS	L40	1	(hydrogen adj bond) and 560/143.ccls.	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
41	BRS	L41	137	dihydroxybenzoic and (hydrogen adj bond)	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
42	BRS	L42	3	3836491.pn.	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		
43	BRS	L43	73	polyester same dihydroxybenzoic	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 05:53		

	Errors
37	0
38	0
39	0
40	0
41	0
42	0
43	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
44	BRS	L44	38	(polyester same dihydroxybenzoic) and adipic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
45	BRS	L45	43	adipic and supramolecular	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
46	BRS	L46	60	adipic and (polyester and ("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic"))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 07:25		
47	BRS	L47	13	adipic same ("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
48	BRS	L48	8	8803805.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:53		
49	BRS	L49	153	polyester and ("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic")	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:54		
50	BRS	L50	2	("2,5-dihydroxybenzoic" or "2,3-dihydroxybenzoic") and (end adj cap)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:54		

	Errors
44	0
45	0
46	0
47	0
48	0
49	0
50	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
51	BRS	L51	2	5362843.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:54		
52	BRS	L52	2	5196502.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 05:54		
53	BRS	L53	8038	melt adj extrusion	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 09:09		
54	BRS	L54	1	"3546008".PN.	USPAT	2004/04/28 07:12		
55	BRS	L55	1	"T871008".PN.	USPAT	2004/04/28 07:20		
56	BRS	L56	1	"T871008".PN.	USPAT	2004/04/28 07:20		
57	BRS	L57	1	"3265655".PN.	USPAT	2004/04/28 07:20		
58	BRS	L58	1	"3466717".PN.	USPAT	2004/04/28 07:20		
59	BRS	L59	1	"3546008".PN.	USPAT	2004/04/28 07:22		
60	BRS	L60	1	"3567498".PN.	USPAT	2004/04/28 07:23		
61	BRS	L61	1	"3636131".PN.	USPAT	2004/04/28 07:23		
62	BRS	L62	1	"3853820".PN.	USPAT	2004/04/28 07:23		
63	BRS	L63	4	l43 and l53	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 09:10		
64	BRS	L64	1120	l6 and l15	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/28 09:12		

	Errors
51	0
52	0
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	0
61	0
62	0
63	0
64	0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
65	BRS	L65	73	l6 same l15	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 09:12		
66	BRS	L66	0	l53 same l65	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 09:12		
67	BRS	L67	4	l53 and l65	USPAT; US-PG PUB; EPO; JPO; DERWENT	2004/04/28 09:13		

	Errors
65	0
66	0
67	0